

Applicant: P. Bonutti  
Application No.: 10/003,996  
Examiner: J. Baxter

### Amendments to the Claims

1-35 (Canceled)

36. (Currently amended) A surgical procedure to be conducted on a patient, said surgical procedure comprising the steps of removing tissue from a first location in the patient's body, separating one or more components from at least a portion of the removed tissue ~~removed from the patient's body~~, thereafter packing the removed tissue into a desired shape, and thereafter implanting the packed tissue at a second location in the patient's body, wherein the removed tissue includes blood and other body tissue.

37. (Currently amended) A surgical procedure as set forth in claim 36 wherein said step of separating one or more components from the removed tissue ~~removed from the patient's body~~ includes centrifuging at least a portion of the removed tissue ~~removed from the patient's body~~.

38. (Currently amended) A surgical procedure as set forth in claim 36 further including the step of adding a substance to the body removed tissue after separating one or more components from the body removed tissue and prior to implanting the packed tissue at a second location in the patient's body.

39. (Previously presented) A surgical procedure as set forth in claim 36 wherein said step of removing tissue from a first location in a patient's body includes cutting body tissue at the first location and moving the body tissue away from the first location under the influence of suction.

40. (Currently amended) A surgical procedure to be conducted on a patient, said surgical procedure comprising the steps of removing tissue from a first location in the patient's body, separating one or more components from at least a portion of the tissue removed from the patient's body, and implanting the tissue at a second location in the patient's body after separating one or more components from at least a portion of the tissue, wherein said step of

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removing tissue from a first location in a patient's body includes cutting body tissue at the first location and moving the body tissue away from the first location under the influence of suction and wherein said step of cutting body tissue includes rotating a cutting tool under the influence of force transmitted through an elongated member which is at least partially enclosed by a tubular member, said step of moving the body tissue away from the first location under the influence of suction includes moving body tissue cut by the rotating cutting tool along the tubular member under the influence of suction, wherein the elongated member is flexible such that the cutting tool can be guided.

41. (Previously presented) A surgical procedure to be conducted on a patient, said surgical procedure comprising the steps of removing tissue from a first location in the patient's body, separating one or more components from at least a portion of the tissue removed from the patient's body, and implanting the tissue at a second location in the patient's body after separating one or more components from at least a portion of the tissue, wherein said step of implanting the tissue at the second location includes inserting a cannula into the patient's body, moving a surgical instrument through the cannula, removing tissue from the second location, said step of removing tissue from the second location includes using the surgical instrument inserted through the cannula, and, thereafter, performing said step of inserting tissue removed from the first location in the patient's body at the second location in the patient's body.

42. (Currently amended) A surgical procedure as set forth in claim 36 wherein ~~said step of removing tissue from a first location in a patient's body includes removing blood from the first location in the patient's body~~, said step of separating one or more components from the removed tissue ~~removed from the patient's body~~ includes separating one or more components from blood removed from the patient's body, said step of implanting the packed tissue at a second location in the patient's body includes implanting one or more components of the blood removed from the patient's body.

43. (Currently amended) A surgical procedure as set forth in claim 36 wherein ~~said step of~~

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~~removing tissue from the first location in the patient's body includes removing blood and other tissue from the first location in the patient's body; said step of separating one or more components from the removed tissue removed from the patient's body includes separating at least a first component from blood removed from the patient's body, said step of implanting the packed tissue at a second location in the patient's body includes implanting the blood removed from the patient's body after removing at least the first component from the blood and implanting at least a portion of the other body tissue removed from the patient's body.~~

44. (Currently amended) A surgical procedure as set forth in claim 36 wherein ~~said step of removing tissue from a first location in a patient's body includes removing at least blood from the first location;~~ said step of separating one or more components from the removed tissue removed from the patient's body includes removing at least a first component from the blood removed from the patient's body, and said step of implanting the packed tissue at the second location includes implanting at least the blood from which at least the first component has been removed.

45. (Canceled)

46. (Currently amended) A surgical procedure as set forth in claim 36 wherein ~~said step of removing tissue from a first location in a patient's body includes removing blood and other tissue from the first location;~~ said step of separating one or more components from the removed tissue removed from the patient's body includes filtering the blood and other body tissue removed from the first location, said step of implanting the packed tissue at a second location is performed after filtering the blood and other body tissue removed from the first location.

47. (Currently amended) A surgical procedure as set forth in claim 36 wherein ~~said step of removing tissue from a first location in a patient's body includes removing blood and other tissue from the first location;~~ said step of separating one or more components from the removed tissue removed from the patient's body includes moving the blood and other body tissue removed from

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the first location into a trap, said step of implanting the packed tissue at a second location is performed after moving the blood and other body tissue removed from the first location into the trap.

48. (Canceled)

49. (Currently amended) A surgical procedure as set forth in claim 36 wherein said step of removing tissue from a first location in a patient's body includes inserting a first tubular member into a patient's body and moving the body removed tissue from the first location in the patient's body through the first tubular member to a location outside of the patient's body, said step of implanting the packed tissue at a second location in the patient's body includes inserting a second tubular member into the patient's body and moving the packed tissue through the second tubular member.

50. (Canceled)

51. (Previously presented) A surgical procedure as set forth in claim 53 further including the step of separating one or more components from at least a portion of the body tissue moved through the first tubular member prior to performance of said step of moving body tissue through the second tubular member to the second location in the patient's body.

52. (Previously presented) A surgical procedure as set forth in claim 53 further including the step of centrifuging at least a portion of the body tissue moved through the first tubular member to separated one or more components from the body tissue prior to performing said step of moving the body tissue through the second tubular member.

53. (Previously prescnted) A surgical procedure to be conducted on a patient, said surgical procedure comprising the steps of inserting a first tubular member into the patient's body, moving body tissue from a first location in the patient's body through the first tubular member to

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a location outside of the patient's body, inserting a second tubular member into the patient's body, and moving at least a portion of the body tissue through the second tubular member to a second location in the patient's body, wherein a substance is added to the body tissue after moving the body tissue from the first location through the first tubular member to a location outside of the patient's body and prior to moving the body tissue through the second tubular member, and wherein the added substance is a bone growth promoter.

54. (Previously presented) A surgical procedure as set forth in claim 53 wherein said step of moving the body tissue from the first location through the first tubular member includes moving the body tissue through the first tubular member under the influence of suction.

55. (Previously presented) A surgical procedure as set forth in claim 53 further including the step of cutting body tissue at the first location with a cutting tool which is driven under the influence of force transmitted through the first tubular member.

56. (Previously presented) A surgical procedure to be conducted on a patient, said surgical procedure comprising the steps of inserting a first tubular member into the patient's body, moving body tissue from a first location in the patient's body through the first tubular member to a location outside of the patient's body, inserting a second tubular member into the patient's body, moving a surgical instrument through the second tubular member, removing tissue from a second location with the surgical instrument, and moving at least a portion of the body tissue through the second tubular member to the second location in the patient's body.

57. (Previously presented) A surgical procedure as set forth in claim 53 wherein said step of moving body tissue from a first location in the patient's body through the first tubular member includes moving blood from the first location in the patient's body through the first tubular member, said surgical procedure further includes separating one or more components from the blood, said step of moving body tissue through the second tubular member to the second location in the patient's body includes moving the blood from which one or more components have been

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removed through the second tubular member to the second location in the patient's body.

58. (Currently amended) A surgical procedure as set forth in claim 53 wherein said step of moving tissue from the first location in the patient's body through a first tubular member includes moving blood and pieces of other tissue through the first tubular member, said surgical procedure further includes filtering the blood and other tissue moved ~~move~~ through the first tubular member, said step of moving body tissue through the second tubular member is performed after filtering the blood and other tissue.

59. (Previously presented) A surgical procedure as set forth in claim 53 wherein said step of moving tissue from the first location in the patient's body through a first tubular member includes moving blood and pieces of other tissue through the first tubular member, said surgical procedure further includes moving the blood and other tissue into a trap, said step of moving body tissue through the second tubular member is performed after moving the blood and other tissue into a trap.

60. (Previously presented) A surgical procedure to be conducted on a patient, said surgical procedure comprising the steps of inserting a first tubular member into the patient's body, moving body tissue from a first location in the patient's body through the first tubular member to a location outside of the patient's body, packing tissue moved through the first tubular member to form a body of packed tissue, inserting a second tubular member into the patient's body, and moving the body of packed tissue through the second tubular member to a second location in the patient's body.

61-68. (Canceled)

69. (Previously presented) A surgical procedure to be conducted on a patient, said surgical procedure comprising the steps of cutting body tissue at a first location in a patient's body, moving blood and other body tissue along a first tubular member in a direction away from the

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first location in the patient's body to a location outside of the patient's body, separating one or more components from at least one of the blood and other body tissue at a location outside of the patient's body, thereafter, packing the blood and other body tissue to form a packed tissue mass, moving the packed tissue mass along a second tubular member in a direction toward a second location in the patient's body, and implanting the packed tissue mass at the second location in the patient's body.

70. (Previously presented) A surgical procedure as set forth in claim 69 wherein said step of separating one or more components from at least one of the blood and other body tissue includes centrifuging the blood.

71. (Previously presented) A surgical procedure to be conducted on a patient, said surgical procedure comprising the steps of cutting body tissue at a first location in a patient's body, moving blood and other body tissue along a first tubular member in a direction away from the first location in the patient's body to a location outside of the patient's body, separating one or more components from at least one of the blood and other body tissue at a location outside of the patient's body, thereafter, moving the blood and other body tissue along a second tubular member in a direction toward a second location in the patient's body, and implanting the blood and other body tissue at the second location in the patient's body wherein said step of separating one or more components from at least one of the blood and other body tissue includes centrifuging the other body tissue.

72. (Previously presented) A surgical procedure as set forth in claim 71 wherein said step of separating one or more components from at least one of the blood and other body tissue includes centrifuging the blood.

73. (Previously presented) A surgical procedure as set forth in claim 69 further including the step of adding a substance to the packed tissue mass prior to moving the packed tissue mass along the second tubular member.

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74. (Previously presented) A surgical procedure as set forth in claim 69 wherein said step of moving the packed tissue mass along a first tubular member includes moving the packed tissue mass under the influence of suction.

75. (Previously presented) A surgical procedure as set forth in claim 69 wherein said step of cutting body tissue at the first location in a patient's body includes rotating a cutting tool under the influence of force transmitting through the first tubular member.

76. (Previously presented) A surgical procedure as set forth in claim 69 further including the steps of moving a surgical instrument through the second tubular member and removing the tissue from the second location before moving the packed tissue mass along the second tubular member.

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